## **AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A data transmission system comprising:
a transmitting apparatus that transmits a scene description; and
a receiving apparatus that constructs a scene according to saidthe scene description;
wherein saidthe transmitting apparatus comprises:

an elementary stream (ES) processing means that transfers at least one ES, which conforms to at least one of a transmission line state and a request issued from the receiving apparatus,

a scene description processing means that transfers <u>and modifies</u> a scene description, <u>whichto</u> conform[[s]] to <u>at least one of a transmission line state and a request issued from said receiving apparatus, a corresponding quality of the at least one ES from the ES processing means by adjusting the properties assigned to the ES <u>within the scene description</u>, and</u>

wherein the transmitting apparatus appends time information to the at least one ES and saidthe scene description; and

wherein said the receiving apparatus monitors said the time information sent from said the transmitting apparatus and detects a delay in transmission using said the time information.; and wherein said scene description comprises at least one node and at least one signal used to construct said scene, each said node describing an object or a relationship between objects.

## 2-13. (Cancelled)

14. (Currently Amended) A data transmitting method for transmitting a scene description that describes the structures at least of one or more signals elementary stream (ES) to be used to construct a scene, and constructing the scene according to the scene description, comprising:

transmitting at least one ES, which conforms to at least one of a transmission line state and a request issued from the receiving side;

transmitting a scene description that conforms to the at least one of a transmission line state and a request issued from a receiving side ES;

appending time information to saidthe transmitted scene description; and monitoring saidthe time information to detect delays in transmission using saidthe time

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information.

15-26. (Cancelled)

27. (Currently Amended) A data transmitting apparatus for transmitting a scene description that describes the structures of at least one elementary stream (ES)or more signals used to construct a scene, comprising:

an ES processing means that transfers at least one ES, which conforms to at least one of a transmission line state and a request issued from a receiving side;

a scene description processing means for transferring <u>and modifying</u> a scene description, in accordance with <u>the</u> at least one <u>ES from the ES processing means</u>, by <u>adjusting the properties assigned to the ES within the scene description of a transmission line state and a request issued from a receiving side, and time information appended to said scene description.</u>

28. (Currently Amended) A data transmitting apparatus according to Claim 27, further comprising:

a memory means in which a plurality of predefined scene descriptions are stored corresponding to a plurality of possible qualities of the at least one ES;

wherein <u>saidthe</u> scene description processing means selects <u>saidthe</u> scene description from among the plurality of scene descriptions stored in <u>saidthe</u> memory means, and transmits the <u>said</u> scene description.

29. (Currently Amended) A data transmitting apparatus according to Claim 27, further comprising:

a memory means in which at least one predefined scene description[[s are]] is stored;

wherein saidthe scene description processing means converts a predefined scene description read from saidthe memory means into saidthe scene description based on the corresponding quality of the at least one ES, and transfers saidthe scene description.

- 30. (Currently Amended) A data transmitting apparatus according to Claim 27, wherein saidthe scene description processing means encodes saidthe scene description and transmits the resultant saidthe scene description.
  - 31. (Cancelled)
- 32. (Currently Amended) A data transmitting apparatus according to Claim 27<del>, further</del> comprising

a signal processing means that transfers one or more signals used to construct a scene, which conform to said at least one of said transmission line state and said request issued from said receiving side;

wherein saidthe scene description processing means transfers saidthe scene description, which comprises information necessary for saidthe receiving side to decode the signals at least one ES transferred from saidthe signal ES processing means.

33. (Currently Amended) A data transmitting apparatus according to Claim 27, further comprising:

a signal processing means that transfers one or more signals used to construct a scene, which conform to said at least said transmission line state and said request issued from said receiving side;

wherein <u>saidthe</u> scene description processing means transfers a scene description that specifies whether the <u>signals at least one ES is</u> to be used to construct a scene are used or not.

34. (Currently Amended) A data transmitting apparatus according to Claim 27, wherein saidthe scene description processing means transfers a scene description whose complexity

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conforms to saidthe at least one ES of said transmission line state and said request issued from a receiving side.

- 35. (Currently Amended) A data transmitting apparatus according to Claim 34, wherein saidthe scene description processing means transfers a scene description, wherein a first scene part within a scene is replaced with a second scene part whose complexity is different from the complexity of the first scene part, in accordance with saidthe at least one ESof said transmission line state and said request issued from said receiving side.
- 36. (Currently Amended) A data transmitting apparatus according to Claim 34, wherein saidthe scene description processing means transfers a scene description, in which a scene part within a scene is removed or a new scene part is added to the scene, in accordance with saidthe at least one ES of said transmission line state and said request issued from said receiving side.
- 37. (Currently Amended) A data transmitting apparatus according to Claim 34, wherein saidthe scene description processing means modifies a quantization step, in which a scene description is encoded, in accordance with saidthe at least one of saidthe transmission line state, and saidthe request issued from saidthe receiving side, and the at least one ES.
- 38. (Currently Amended) A data transmitting apparatus according to Claim 27, wherein saidthe scene description processing means divides a scene description into a plurality of decoding units in accordance with saidthe at least one of saidthe transmission line state, and saidthe request issued from saidthe receiving side, and the at least one ES.
- 39. (Currently Amended) A data transmitting apparatus according to Claim 38, wherein saidthe scene description processing means adjusts a time interval between time instants at which saidthe receiving side decodes each of the plurality of decoding units into which a scene description is divided.

40. (Currently Amended) A data transmitting method for transmitting a scene description that describes the <u>properties of structures of one or more signals at least one elementary stream (ES)</u> used to construct a scene, comprising:

transmitting at least one ES, which conforms to at least one of a transmission line state and a request issued from the receiving side;

transmitting a scene description in accordance with the corresponding quality of the at least one of said transmission line state and said request issued from a receiving side is transmitted;

appending time information to <u>at least one of saidthe</u> transmitted scene description <u>and the at</u> least one ES.

41. (Currently Amended)A data transmitting method according to Claim 40, further comprising:

storing a plurality of predefined scene descriptions <u>corresponding to a plurality of possible</u> <u>qualities of the at least one ES;</u> and

selecting a-the scene description from among the plurality of scene descriptions.

42. (Currently Amended)A data transmitting method according to Claim 40, further comprising:

storing at least one predefined scene description[[s]]; and converting a predefined scene description into another scene description corresponding to the quality of the at least one ES.

- 43. (Currently Amended) A data transmitting method according to Claim 40, further comprising[[÷]]\_encoding saidthe scene description.
  - 44. (Cancelled)

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45. (Currently Amended) A data transmitting method according to Claim 40, further comprising:

transmitting one or more signals used to construct a scene in accordance with at least one of said transmission line state and said request issued from said receiving side;

wherein a-the scene description that further comprises information necessary for saidthe receiving side to decode the transmitted signals at least on ES.

46. (Currently Amended) A data transmitting method according to Claim 40, further comprising:

transmitting one or more signals used to construct a scene in accordance with at least one of said transmission line state and said request issued from a said receiving side; and

wherein <u>saidthe</u> scene description specifies whether to use <u>saidthe</u> <u>one or more signalsat</u> <u>least one ES</u>.

## 47. (Cancelled)

- 48. (Currently Amended) A data transmitting method according to Claim 4740, further comprising a first scene part within a scene with a second scene part, whose complexity differs from the complexity of the first scene part, in accordance with the at least one ES of said transmission line state and said request issued from said receiving side.
- 49. (Currently Amended) A data transmitting method according to Claim 4740, further comprising modifying saidthe scene description, by removing a scene part within a scene or adding a new part to the scene, in accordance with the at least one ES of said transmission line state and said request issued from said receiving side.
- 50. (Currently Amended) A data transmitting method according to Claim 4740, further comprising[[÷]] modifying a scene description encoding step is accordance with a quantization step

in accordance with <u>the</u> at least one of <u>saidthe</u> transmission line state-<u>and</u>, <u>saidthe</u> request issued from <u>saidthe</u> receiving side, <u>and the at least one ES</u>.

- 51. (Currently Amended) A data transmitting method according to Claim 40, further comprising dividing saidthe scene description into a plurality of decoding units in accordance with at least one of saidthe transmission line state and, saidthe request issued from a saidthe receiving side, and the at least one ES.
- 52. (Previously presented) A data transmitting method according to Claim 51, comprising adjusting the division step in accordance with a time interval between time instants at which a receiving side decodes each of the plurality of decoding units.
  - 53-77. (Canceled)
  - 78. (Currently Amended) A data transmission system comprising: a transmitting apparatus that transmits a scene description; and a receiving apparatus that constructs a scene according to saidthe scene description; wherein saidthe transmitting apparatus comprises:

a elementary signal (ES) processor that transfers at least one ES used to construct the scene, in accordance to the transmission capacity, and

a scene description processor that transmits a scene description and a time information, saidthe scene description conforming to a transmission capacity, saidthe transmission capacity being derived from at least one of a transmission line state, a request issued from saidthe receiving apparatus, or known available resources of saidthe receiving apparatus;

wherein saidthe receiving apparatus monitors saidthe time information sent from saidthe transmitting apparatus to detect a delay in the transmission; and

wherein saidthe scene description includes objects, the objects comprises comprising at least one node and at least one signal used to construct saidthe scene, each saidthe node describing an object or a relationship between objects.

79-94. (Cancelled)

95. (New) A data receiving apparatus for receiving a scene description that describes at least one elementary stream (ES) used to construct a scene, comprising:

an ES decoding unit that receives at least one ES, which conforms to at least one of a transmission line state and a request issued from the data receiving apparatus;

a scene description decoding unit for constructing a scene description, in which the properties assigned to the ES within the scene description conform to the at least one ES.

- 96. (New) A data receiving apparatus according to Claim 95, wherein the scene description is transmitted from a server side which includes a scene description processing unit that selects the scene description from among the plurality of scene descriptions stored in a memory, and transmits the scene description.
- 97. (New) A data receiving apparatus according to Claim 95, wherein the scene description is transmitted from a server side which converts a predefined scene description read from a memory into the scene description based on the corresponding quality of the at least one ES, and transmits the scene description.
- 98. (New) A data receiving apparatus according to Claim 95, wherein the scene description specifies whether the at least one ES is to be used to construct the scene.
- 99. (New) A data receiving apparatus according to Claim 95, wherein the scene description complexity conforms to the at least one ES.

- 100. (New) A data receiving apparatus according to Claim 99, wherein the scene decoding unit receives a scene description, wherein a first scene part within a scene is replaced with a second scene part whose complexity is different from the complexity of the first scene part, in accordance with the at least one ES.
- 101. (New) A data receiving apparatus according to Claim 99, wherein the scene description decoding unit receives a scene description, in which a scene part within a scene is removed or a new scene part is added to the scene, in accordance with the at least one ES.
- 102. (New) A data receiving apparatus according to Claim 99, wherein the scene description is received in portions encoded based on a quantization step, in accordance with the at least one of the transmission line state, a request issued from the data receiving apparatus, and the at least one ES.
- 103. (New) A data receiving apparatus according to Claim 95, wherein the scene description is received in a plurality of divided parts encoded by a transmitting apparatus in accordance with the at least one of the transmission line state, the request issued from the receiving side, and the at least one ES.
- 104. (New) A data receiving apparatus according to Claim 103, wherein the scene transmitting apparatus adjusts a time interval between time instants at which the data receiving apparatus decodes each of the plurality of divided parts into which the scene description is divided.
- 105. (New) A data receiving method for receiving a scene description that describes the properties of at least one elementary stream (ES) used to construct a scene, comprising:

receiving at least one ES, which conforms to at least one of a transmission line state and a request issued from a receiving side;

receiving a scene description in accordance with the corresponding quality of the at least one ES;

wherein time information is appended to at least one of the received scene description and the at least one ES.

106. (New) A data receiving method according to Claim 105, wherein the scene description

is selected from among a plurality of predefined scene descriptions corresponding to a plurality of

possible qualities of the at least one ES.

107. (New) A data receiving method according to Claim 105, wherein the scene description

is created by converting a predefined scene description based on the corresponding quality of the at

least one ES.

108. (New) A data receiving method according to Claim 105, wherein the scene description

further comprises information necessary for the receiving side to decode the at least one ES.

109. (New) A data receiving method according to Claim 105, wherein the scene description

specifies whether to use the at least one ES.

110. (New) A data receiving method according to Claim 105, wherein in the scene

description, a first scene part is replaced with a second scene part, whose complexity differs from

the complexity of the first scene part, in accordance with the at least one ES.

112. (New) A data receiving method according to Claim 105, wherein in the scene

description, a scene part is removed or added, in accordance with the at least one ES.

113. (New) A data receiving method according to Claim 105, wherein the scene description

is encoded in a quantization step, in accordance with the at least one of the transmission line state,

the request issued from the receiving side, and the at least one ES.

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114. (New) A data receiving method according to Claim 105, wherein the scene description is divided into a plurality of decoding units in accordance with at least one of the transmission line state, the request issued from the receiving side, and the at least one ES.

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115. (New) A data receiving method according to Claim 114, wherein the scene description is divided in accordance with a time interval between time instants at which a receiving side decodes each of the plurality of decoding units.